

**CONFIDENTIAL**

NPIC/P&DS/D/6-1655  
28 October 1966

MEMORANDUM FOR THE RECORD

25X1A SUBJECT: Trip Report to [ ]  
To Inspect Chip Comparator

25X1A 1. On 26 October 1966 [ ] and myself visited the [ ]  
[ ] The purpose of the visit  
25X1A was to ascertain what steps had been taken to isolate and correct Chip  
Comparator interferometer drift.

25X1A 2. [ ], the president of the company, described their analysis  
and solution. The necessary improvements have been incorporated in the  
interferometer borrowed from Chip Comparator 405B, Serial No. 1 (IAD).  
25X1A According to [ ] they have obtained reliable operation over a  
temperature range of 65 to 90 degrees for a period of three weeks. His  
feeling is that they have solved the problem.

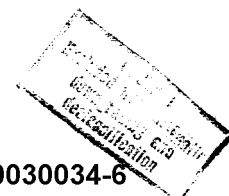
25X1A 3. [ ] suggested that the other interferometer and the two  
digitizer chassis from 405B Serial No. 1, be installed on the 405A, which  
is currently being converted to the 405B configuration. It would then  
be run approximately 1 month to check out the complete system. [ ]  
25X1A agreed to this, and a representative will pick up the components during the  
first week in November. If everything is accomplished on schedule the  
modified 405A could be delivered in early January, 1967. The first 405B  
system should be operational by April, and the others at two week intervals  
thereafter.

[ ] 25X1A  
Equipment Performance Section, P&DS

Distribution  
Orig--P&DS/DB/EPs  
1 --P&DS/DB

DECLASS REVIEW by NIMA/DOD

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25X1A

- 1 Lamp temperature control by heating water to proper temperature
  - 2 Tubing that will stand up against ozone
  - 3 Clean photo cell to monitor light intensity
  - 4 Circuit design changes in amplifier card.
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### Program Schedule

To put access holes on A for adjustments  
Send a B interferometer to have a set on A machine

- To put B interferometers on A machine & check out as total package.

We pay for the retrofit of the 2 A interferometers.  
We fix the ~~exp~~ surplus lamp housings with  
larger drill holes & insulating washers

5 Weeks from engineering release till 405A/B  
is ready for test (Double This time)

Look into the possibility of sending another <sup>405B</sup> back